

DIRECTOR OF CENTRAL INTELLIGENCE

**Security Committee**

SECOM-D-401

9 DEC 1980

Mr. Philip E. Forest  
Special Assistant to the  
Deputy Assistant Secretary for  
Single Family Housing & Mortgage Activities  
Department of Housing and Urban Development  
Room 9282  
451 Seventh Street, S. W.  
Washington, D. C. 20410

STATINTL

STATINTL Dear Mr. Forest:

Two members of my staff, Messrs. [redacted]  
[redacted] recently visited your office concerning building specifications and construction methods used by the Soviet Union. You then expressed a willingness to assist in obtaining detailed specification (albums) of references mentioned in the Soviet drawings for the new U. S. Embassy complex under construction in Moscow. Copies of Soviet drawings with album numbers of interest circled in blue are attached.

A related matter of interest to me is from a Moscow domestic TV newscast (1130 GMT, 8 August 1980). This reported that the Ukrainian Academy of Sciences had developed a radiometer which can find defects in concrete slabs. An unedited, rough draft translation along with still photographs of pertinent scenes of that part of the newscast is attached.

STATINTL

I would appreciate any information you could provide concerning either of the above items. Please contact [redacted] STATINTL  
[redacted] or myself [redacted] regarding questions  
your staff may have on these matters. STATINTL

Thank you very much for your assistance on this.

Sincerely,

[redacted]

STATINTL

Executive Secretary

Attachments

STATINTL

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(INTRO)

The State Committee of the USSR on matters pertaining to inventions and discoveries gave an inventor's certificate to a group of scientists at the Kiev Institute of Physics of the Ukrainian Academy of Sciences for Developing new types of measuring instruments.

(WOMAN SPEAKS)

Before showing us the new instruments the bosses at the lab where this invention took place suggested having a look at this experiment.

In an ordinary reinforced concrete slab/tile, different sized holes were drilled. A reflector was then (? passed through the plane ?) of the tile, then a hand-held instrument pistol/gun was passed over the surface of it which surprisingly showed with accuracy the areas of the construction defects. Its scale immediately registered/recorded the temperature differences/changes in the man-made strips of tile. Thus, the experimental model of the infrared instrument/device for thermal monitoring operates easily and accurately. In other words, the radiometer made it possible to see what cannot be seen - the inside of the tile.

(MAN IN LAB)

The special feature of the instruments is the fact that they operate rapidly. Whereas other thermal instruments give out

signals in a fraction of a second, our instruments have a high-speed response of a millionth or even a billionth of a second. This is very important if you visualize the fact that a laser can cut through a thick plate/slab in a fraction of a second then it is very important to put (? the laser ?) in. The technological/process (? is being controlled by the laser ?). At present we are accomplishing/completing a very important cycle of work in conjunction with the Scientific Research Institute of the Construction Industry concerning/pertaining to the industrial radiometer for construction/building purposes. This device will make it possible to carry out (? inspection ?) of construction material (? more quickly ?). The calculations carried out showed the specialists that introducing this device in the enterprises in the Ukraine only will make it possible to save up to 5 million rubles per year...

(WOMAN SPEAKING)

...(they) have already found an application in an optical instrument of the METER artificial satellites. They are helping to collect information needed for drawing up long-range weather forecasts.

END

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